

## CM-06D video intercom system in SMSP

# User's manual

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This symbol indicates that there are important operation and maintenance instructions in the literature accompanying the appliance.

This apparatus shall not be exposed to dripping or splashing, and shall not be placed under objects filled with liquids, such as vases.

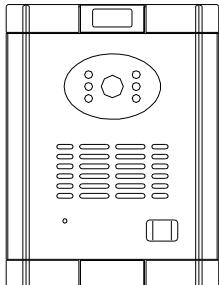
## 1. System introduction

This system, with the functions of video intercom and unlocking, is made of 1 door station and 4 monitors. The door station adopts 1/3' CCD or CMOS, and the build-in infrared LED enables you to identify visitors clearly even at night.

Video/audio indoor phone-----CM-06DRH, CM-06DRG and WL-06DFH is compatible in this system.

## 2. System components and parameters

### 2.1 CM-06D door station parameters



- a. Working voltage: DC 12V±10%
- b. Static current: ≤10mA
- c. working current: ≤130mA
- d. Door station: 1/3' CCD or CMOS

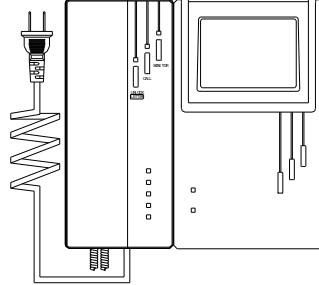
Lens F=2

Viewing angle=92.8°

Min. luminance=0.1 Lux.

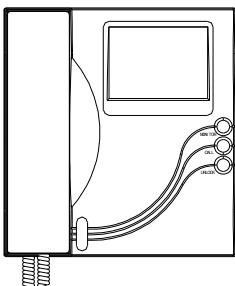
Resolution>450 lines

### 2.2 CM-06DRH monitor parameters



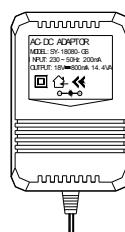
- a. Working voltage: AC150-240V, 50-60Hz.
- b. Power consume: <10w
- b. Kinescope: 4' flat tube; resolution>450 lines

### 2.3 CM-06DRG monitor parameters



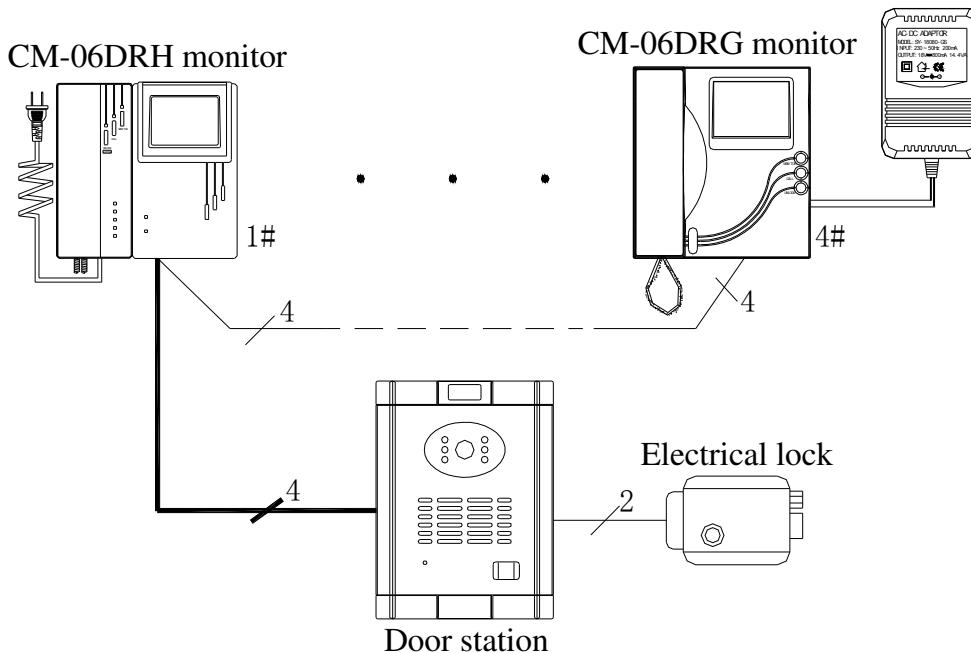
- a. Working voltage: DC 18V±10%
- b. Static current: ≤35mA
- c. working current: ≤500mA
- b. Kinescope: 4' flat tube; resolution>450 lines

### 2.4 Power supply parameters

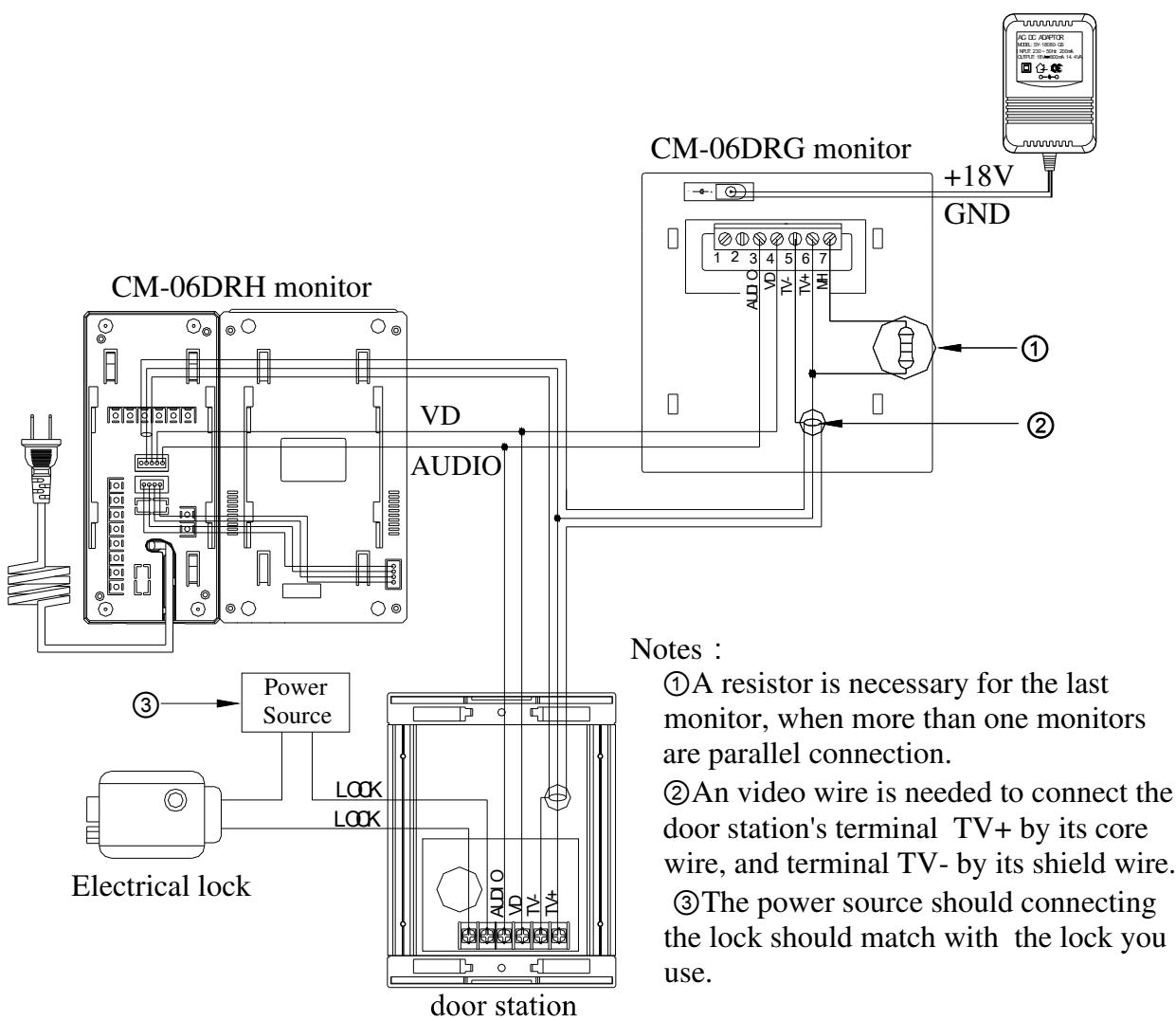


- a. Input current : AC 220V±10%
- b. Output voltage: DC18V/800mA

### 3、System diagram



### 4、System installation diagram



## 5、Connections

- ① From door station to electrical lock: There are six terminals on the back of the door station respectively marked from left to right as LOCK+, LOCK-, AUDIO, VD, TV-, TV+, among which LOCK+ and LOCK- terminals connect with electrical lock;
- ② From door station to the monitor of CM-06DRH: There are five terminals on the back of monitor respectively marked from left to right as MH, TV+,TV-,VD,AUDIO. Door station terminal AUDIO connects with monitor terminal No.5 (AUDIO); door station terminal VD connects with monitor terminal No.4(VD); door station terminal TV- connects with monitor terminal No.3(TV-); door station terminal TV+ connects with monitor terminal No.2(TV+); **The power supply for the monitor is switch mode power supply(SMPS). It is powered on when inserting the plug into the AC socket directly. (Notes: the currency and voltage output should be controlled under the normal workable currency and voltage volume for equipment, otherwise, equipments will be damaged or not be able to work normally.)**
- ③ From door station to the monitor of CM-06DRG: Door station terminal AUDIO connects with monitor terminal No.3 (AUDIO); door station terminal VD connects with monitor terminal No.4(VD); door station terminal TV- connects with monitor terminal No.5(TV-); door station terminal TV+ connects with monitor terminal No.6(TV+); **The power supply for the monitor is adaptor , just Insert the output port of the adaptor into the 18V input socket on the back of the monitor, or the positive pole of power of adaptor connects with monitor terminal No.1 and the negative pole of power of the adaptor connect with monitor terminal No.2 (Please Note: equipment unit will be damaged if the power polarity is not correct.)**
- ④ If four monitors are connected each other, please connect the terminals (VD,AUDIO,TV+,TV-) of every monitor together with 4-core wire and a resistor (matching the Unit) together with the product should connect with the last monitor's terminal MH and TV+. Other monitor doesn't need to connect with matching resistor.

## 6、Wire material

- ① If the transmit distance  $\leqslant$  50m, please use RVV4×0.5 wire between system.
- ② If the transmit distance is more than 50m, please use 75-5 video wire, and RVV2×0.5 or larger size wires for other connection.

## 7、System operations

- ① The monitor will ring when the “call” button on the door station is pressed, at the same time, the monitor will display the image of the visitor (with the function to identify the visitor in the dark).
- ② The host picks up the handset (there is two light sound heard from the door station) to answer, the conversation time limit is 110 seconds. If nobody answers the phone, the image will disappear automatically after about 70 seconds.
- ③ The kinescope will turn on to display the image in front of the door station when “supervise” button is pressed, and will turn off by hanging up the handset.
- ④ Pick up the handset of any monitor, and press “call” button for 2 seconds, the other 3 monitors will ring, picking up one of these three handsets, conversation between monitors is available (without time limitation), during this time, the kinescope of monitors does not work, but if any visitor press the door station button, the monitors in conversation will display the image of the visitor without ring.
- ⑤ The electric lock can be unlocked by pressing “UNLOCK” button for 2 seconds when monitor displays image.
- ⑥ There are two switches on the left side of the monitor(CM-06DRG)'s handset, and two switches on the bottom side of monitor(CM-06DRH) for adjusting the brightness and contrast.

Note: Please do not press ‘call’ button when image is being displayed on the kinescope.

## 8.System debug and maintenance

8.1 Check whether there exists wrong connection, miss connection or short connection after completing system connections.

8.2 If the system connections are correct, please power on to debug:

We recommend you to power the system by parts: firstly connect part of the system backbone and monitors and power on, then dial a monitor number that had been connected into the system, now the monitor should ring and than checking it by conversation, unlock and hang up, if it works normally, please cut off the power, connect and electrify more parts of the backbone and monitors, repeat above checking steps until all monitors are added into the system and the system works normally.

Please follow these two basic principles and one basic check method:

**Replace principle:** To replace any equipment or circuit can judge whether this equipment or circuit has malfunction according to the system status after replacement.

**Unique principle:** if one monitor and door station work normally in the whole system, then we can make a conclusion that there is no malfunction between this monitor, door station, power supply and the circuit among the three equipments.

Check method: disconnect the system backbone and connect only one monitor to the door station to judge whether there is any malfunction among the door station, power box and electrical lock.

Please pay attention to the follows:



- a. Do not replace any equipment or circuit during power on.
- b. Please power off immediately when there is no light on the door station or the system gives any abnormal sound.
- c. Check and be sure the system connections are right before power on.

8.3 Door shutter adjustment: after the installation of the door shutter, the shutting speed could be adjusted. There two adjusting screws marking “1” and “2” on the door shutter. “1” means speed 1 (the shutting speed when the movable door is far from the fixed door); “2” means speed 2 (the shutting speed when the movable door is close to the fixed door). Turning clockwise to slower while turning anti-clockwise to quicken the speed.

8.4 Please Note: first time to put on power, it is a normal for monitors ringing without picture on.

## 9. Installations

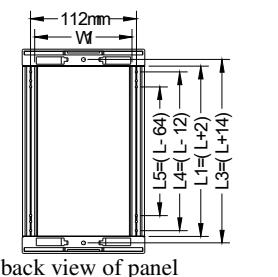
9.1 Installation size(NOTE: "L" in the following diagram is the length of aluminum alloy panel)

(1)CM-06D door station: The length of aluminum alloy shell is 138mm

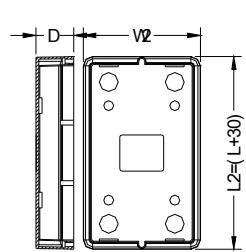
a.Installing size on the iron door: 166(L1)×108(W1)×38(D1)mm

b.Installing size on the wall:164(L2)×126(W2)×42(D2)mm

drilling size on the wall:70(L3)×70(W3)mm

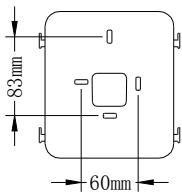


back view of panel

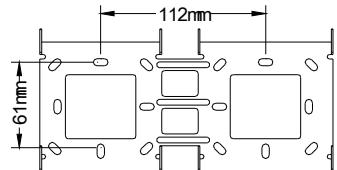


Side and back view of back cover

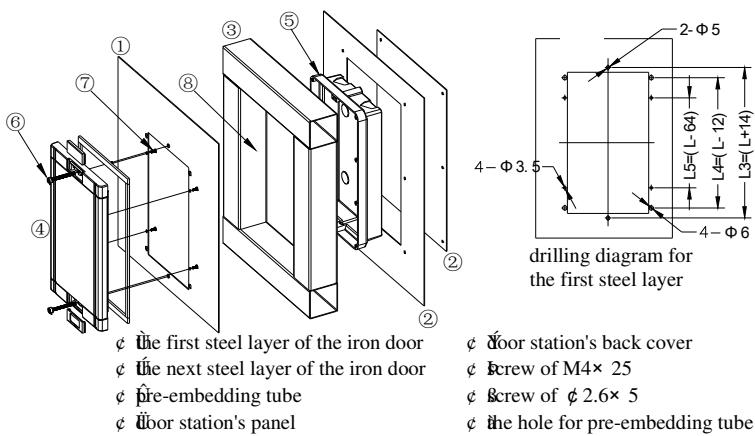
(2)CM-06DRG monitor hole distance:



(3)CM-06DRH monitor hole distance



## 9.2 Installation notice



- ① The first steel layer of the iron door
- ② screw of M4× 25
- ③ fire-embedding tube
- ④ door station's panel

### 9.2.1 Install the door station on the iron door

9.2.1.1 Drill a rectangular hole at the proper position on the first steel layer and the next steel layer of the iron door according to the installation size for door station.

9.2.1.2 Dismantle the back cover of the door station. Firstly fix the back cover on the iron door, then fasten the door station from the back cover with two screws M4×45 and fixing steel slice together with the products.

### 9.2.2 Install the door station on the wall

9.2.2.1 Drill a rectangular groove at the proper position on the wall according to the installation size for door station .

9.2.2.2 Drill four holes of  $\varnothing 6$  in the rectangular hole according to drilling size for the door station on the wall. And fix the back cover in the rectangular hole with inflatable tube and screws( $\varnothing 4.2 \times 40\text{mm}$ ).

9.2.2.3 Make the door station's panel cling to the back cover and screw them tightly with two screws M4×25.

### 9.2.3 Installation height: depends on the average stature of the local people.

#### 9.2.4 Notes:

9.2.4.1 When you are embedding the door station's back cover, please pay attention to the depth. The depth is subject to the standard that the door station control panel clings to the iron door or to the horizontal surface of the wall. Too large interval between the door station's panel outside the iron door or the wall should be avoided.

9.2.4.2 Install the door station on the fixed door which does not open when using embedding installation way.

c. Do not install this product under rain, moist, high temperature, dusty or caustic conditions.